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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/660,502	09/12/2000	Hiroki Nakayama	865.4339 DI	1875
5514	7590 07/18/2002			
	CK CELLA HARPER	EXAM	EXAMINER	
30 ROCKEFE NEW YORK,		THOMPSON, TIMOTHY J		
			ART UNIT	PAPER NUMBER
				DATE MAILED: 07/18/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

•	· .	Application No.	Applicant(s)	W/				
	•	09/660,502	NAKAYAMA, HIRO	OKI				
	Office Action Summary	Examiner	Art Unit					
		Timothy J Thompson	2873					
	The MAILING DATE of this communication ap	•	1	dress				
Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status								
1)	Responsive to communication(s) filed on							
2a) □	· · · · · · · · · · · · · · · · · · ·	his action is non-final.						
3) 🗌	Since this application is in condition for allow		natters, prosecution as to th	e merits is				
,—	closed in accordance with the practice under			o monto to				
Disposition of Claims								
•	Claim(s) 29,31 and 33-50 is/are pending in the	• •						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
· <u> </u>	☐ Claim(s) <u>29,31,33,46 and 47</u> is/are allowed.							
	6)⊠ Claim(s) <u>34-36,39-45 and 48-50</u> is/are rejected.							
·	Claim(s) <u>37, 38</u> is/are objected to.							
•	Claim(s) are subject to restriction and/c on Papers	or election requirement.						
	•	ar						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 12 September 2000 is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)⊠ All b)□ Some * c)□ None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No. <u>08/248,979</u> .							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) ☐ The translation of the foreign language provisional application has been received.								
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)								
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>1</u>	5) Notice	w Summary (PTO-413) Paper No(of Informal Patent Application (PTC					

Application/Control Number: 0 0,502

Art Unit: 2873

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 34-36, 40-42, 44, 48-50 are rejected under 35 U.S.C. 102(b) as being anticipated by Hata(U.S. Patent No. 4,993,814).

Regarding claim 34, Hata discloses in order from an object side to an image side, a first lens unit of negative refractive power located closer to the object side than any lens units of the zoom lens(fig 5, I), a second lens unit of positive refractive power(fig 5, II), the second lens unit consisting of, in order from the object side to the image side, a positive lens element(fig 5, r7-r8), a negative lens element(fig 5, r9-r10) and a positive lens element(fig 5, r12-r13), wherein the separation between the first lens unit and the second lens unit is varied during zooming(fig 5), and the following condition is satisfied: 3 < NL < 4 (fig 5).

Regarding claim 35, Hata discloses the first lens unit has in order from the object a negative lens element(fig 5, r1-r2), a negative lens element(fig 5, r3-r4) and a positive lens element(fig 5, r5-r6).

Regarding claim 36, Hata discloses the first lens unit has in order from the object two negative lens element of meniscus from convex toward the object side(fig 5, rL1, L2) and a positive lens element of meniscus from convex toward the object side (fig 5, L3).

Regarding claim 48, Hata discloses an image pickup element provided on an image plane of the zoom lens(col 1, lines 5-10, since this is a zoom lens system used with a camera it inherently includes an image pickup element provided on an image plane of the zoom lens and col 6, lines 28-38 which states that the image plane is to the right of the lenses which is inhwerently where you would place the CCD).

Regarding claim 40, Hata discloses in order from an object side to an image side, a first lens unit of negative refractive power located closer to the object side than any lens units of the zoom lens(fig 5, I), the first lens unit consisting of, in order from the object side to the image side, a negative lens element(fig 5, L1), a negative lens element(fig 5, L2) and a positive lens element(fig 5, L3)a second lens unit of positive refractive power(fig 5, II), the second lens unit having two positive lens elements and a negative lens element, wherein the separation between the first lens unit and the second lens unit is varied during zooming(fig 5).

Regarding claim 41, Hata discloses the first lens unit has in order from the object two negative lens element of meniscus from convex toward the object side(fig 5, rL1, L2) and a positive lens element of meniscus from convex toward the object side (fig 5, L3).

Regarding claim 42, Hata discloses the second lens unit consisting of, in order from the object side to the image side, a positive lens element(fig 5, r7-r8), a negative lens element(fig 5, r9-r10) and a positive lens element(fig 5, r12-r13).

Regarding claim 49, Hata discloses an image pickup element provided on an image plane of the zoom lens(col 1, lines 5-10, since this is a zoom lens system used with a camera it inherently includes an image pickup element provided on an image plane of the zoom lens and col 6, lines 28-38 which states that the image plane is to the right of the lenses which is inhwerently where you would place the CCD).

Regarding claim 44, Hata discloses in order from an object side to an image side, a first lens unit of negative refractive power located closer to the object side than any lens units of the zoom lens(fig 5, I), a second lens unit of having a plural of lens elements and having a positive lens element located closest to the object side(fig 5, L3), wherein the separation between the first lens unit and the second lens unit is varied during zooming(fig 5).

Regarding claim 50, Hata discloses an image pickup element provided on an image plane of the zoom lens(col 1, lines 5-10, since this is a zoom lens system used with a camera it inherently includes an image pickup element provided on an image plane of the zoom lens and col 6, lines 28-38 which states that the image plane is to the right of the lenses which is inhwerently where you would place the CCD).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 39, 43 and 45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hata (U.S. Patent No. 4,993,814) as applied to claims 34, 40 and 44 above, and further in view of Shimizu(U.S. Patent No. 6,236,522).

Regarding claims 39, 43 and 45, Hata as detailed in claim 34, 40 and 44, does not disclose the second lens unit has an aspherical surface closest to the object side. However, Shimizu discloses using an aspherical surface on a lens in a zoom lens unit so as to correct for aspherical aberrations(example 1). It would have been obvious to one skilled in the art at the time of the invention us place an aspherical surface closest to the object side as shown by Shimizu, in the zoom lens unit of Hata, since as shown by Shimizu, aspherical surfaces are commonly used in zoom lens units for correcting aberrations(note; the placement of the aspherical surface in the lens unit can obviously be placed on any of the lenses).

Allowable Subject Matter

Claims 37 and 38 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all

of the limitations of the base claim and any intervening claims. With the imporatn feature being the placement of the lenses.

Claims 29, 31, 33, 46, 47 are allowed.

The following is an examiner's statement of reasons for allowance: The prior art taken either singularity or in combination fails to anticipate or fairly suggest the limitations of the independent claim, in such a manner that a rejection under 35 U.S.C. 102 or 103 would be proper. The prior art fails to teach a combination of all the claimed features as presented in independent claim 1, with the important feature being the placement of the lenses. Therefore claims 1-5 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy J. Thompson whose telephone number is (703) 305-0881. If the examiner can not be reached his supervisor, Georgia Epps, can be reached on (703) 308-4883.

Supervisory Patent Examiner Technology Center 2800